(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/058404 A3

(51) International Patent Classification7: 1/30, 33/48

G01N 21/00,

(21) International Application Number:

PCT/US2003/040591

(22) International Filing Date:

19 December 2003 (19.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/435,601

20 December 2002 (20.12.2002)

- (71) Applicant (for all designated States except US): DAKO-CYTOMATION DENMARK A/S [DK/DK]; Produktionsvej 42, DK-2600 Glostrup (DK).
- (72) Inventors: and
- (75) Inventors/Applicants (for US only): [US/US]; 290 Saddle Lane, Ojai, CA 93023 (US). FEIN-GOLD, G [US/US]; 5242, Austin Road, Santa Barbara, CA 93111 (US). WELCHER, Rosanne [US/US]; 1175 Church Street, Ventura, CA 93001 (US).

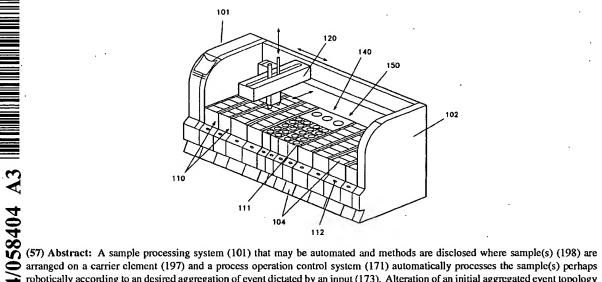
- (74) Agent: SANTANGELO, Luke; Santangelo Law Offices, P.C., Third floor, 125 South Howes, Fort Collins, CO 80521 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: ENHANCED SCHEDULING SAMPLE PROCESSING SYSTEM AND METHODS OF BIOLOGICAL SLIDE PRO-**CESSING**



robotically according to an desired aggregation of event dictated by an input (173). Alteration of an initial aggregated event topology may be accepted while the system is processing an initial aggregation and varied-parameter robotic control simulation functionalities (606) may be accomplished to determine an enhanced sequence for processing. Suggested operator actions may be displayed that might further enhance the scheduling of the altered aggregated event topology together with an automatic operator need prompt (608) that may inform an operator of a need for a particular action in order to accomplish the desired tasks. Reversibility to proposed changes may be made available so that an operator may avoid having to activate proposed changes if they cause a processing result that is not acceptable.

WO 2004/058404 A3



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 10 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40591

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 21/00, 1/30, 33/48		
US CL : 422/67; 435/40.5, 286.1, 287.3, 288.7; 702/19		
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 422/67; 435/40.5, 286.1, 287.3, 288.7; 702/19		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.	
A	US 5,839,091 A (RHETT et al.) 17 November 1998, see abstract. 1-158	
. A	6,352,861 A (COPELAND et al.) 05 Marh 2002, see "Sumary of Invention" section.	
•		
		, v
1		
	·	
		_
•		
		ĺ
		·
Further documents are listed in the continuation of Box C. See patent family annex.		
* S	pecial categories of cited documents:	"T" later document published after the International filing date or priority
"A" document of particu	defining the general state of the art which is not considered to be lar relevance	date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such documents, such combination being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family
Date of the actual completion of the international search		Dago Grailing of the international search report
08 July 2004		
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Authorized Authorize		Authorized officer
Commissioner for Patents		Robert Warden
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-1700
	. (703) 305-3230	-V

Form PCT/ISA/210 (second sheet) (July 1998)